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An interpretation of a refined Bell-La Padula model for the TMachkernel

FL Mayer, TIS Inc, MD Glenwood - Aerospace Computer Security Applications Conference, 1988., ..., 1988 - [ieeexplore.ieee.org](#)

... The final component of a system state, f, is a triple of **security level**

functions-level(O), level(S), and c.Mrreitt-level(S)-which assign security levels ...

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InfoShield: A security architecture for protecting information usage in memory- •psu.edu [PDF]

W Shi, JB Fryman, G Gu, HHS Lee, Y Zhang, J Yang - High-Performance Computer Architecture, 2006. The Twelfth ..., 2006 - [ieeexplore.ieee.org](#)

... saries to identify secrets in an application's **virtual memory**. ... a and b, at the same

security level. ... the SR table by testing the effective (**virtual**) **address**. ...

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Address space layout permutation (aslp): Towards fine-grained randomization of commodity software- •ncsu.edu [PDF]

C Kil, J Jun, C Bookholt, J Xu, P Ning - Computer Security Applications Conference, 2006. ACSAC'06. ..., 2006 - [ieeexplore.ieee.org](#)

... a contiguous, sequential set of **virtual memory** ad- dresses as ... to request a specific

virtual address to store ... In such micro-**security level** perspec- tive, the de ...

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An overview of computer security

RC Summers - IBM Systems Journal, 1984 - [research.ibm.com](#)

... CAPABILITY LIST FOR PROCESS 2: SEGMENT B (READ) | I | ments. Thus a **security level**

consists of both a sen- sitivity or clearance level and a set of compartments. ...

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Using split capabilities for access control

AH Karp, GJ Rozas, A Banerji, R Gupta - IEEE software, 2003 - [ieeexplore.ieee.org](#)

... Each "name" is a **virtual address** useful only to the ... keys con- trol access to the

virtual memory's pages. ... at the same or lower **security level** and write ...

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[CITATION] SCOMP: A SOLUTION TO THE MLS PROBLEM

LJ Fraim - Security, IFIP/Sec'83: Proceedings of the First Security ..., 1983 - North-Holland

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•Identification of subjects and objects in a trusted extensible client server architecture

TCV Benzel, EJ Sebes - National Information Systems Security'95 (18th) Proceedings: ..., 1996 - books.google.com

... multiple sessions each potentially of a different **security level**. ... IPC into a task's

virtual address space (an ... the usual sort of **virtual memory**-mapped access to ...

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Secure and advanced unpacking using computer emulation

S Josse - Journal in Computer Virology, 2007 - Springer

... each translation block), a comparison between its value in **virtual memory** and its ...

been initialised by the NT loader with the function **virtual address** in memory ...

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Assurance for the Trusted Mach operating system

M Branstad, J Landauer, TIS Inc, MD Glenwood - Computer Assurance, 1989. COMPASS'89,'Systems Integrity, ..., 1989 - ieeexplore.ieee.org

... is a secondary storage object that is mapped into a task's **virtual memory**. ... The **security**

level function f consists of four level func- tions-level(O), level(S ...

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[PDF] •Split capabilities for access control

AH Karp, R Gupta, G Rozas, A Banerji - HP Laboratories Palo Alto, HPL-2001, 2001 - Citeseer

... to the user's **security level** in the ... is a close analogy to split capabilities, namely

virtual memory. Each "name" is a **virtual address** useful only to the ...

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Integrating operating systems and run-time systems

LP Van Doorn - US Patent 6,546,546, 2003 - Google Patents

... 65 The second **security level** is implemented by the Java ... a **virtual memory** address

using the **virtual memory** service. ... have it map it into its **virtual address** space ...

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[PDF] •Design, Implementation and Performance of Protection in the Mungi Single Address Space Operating ...

JD Vochtelloo - 1998 - Citeseer

... In the Mungi single address space there is only one name for each entity, its **virtual**

address. ... Same **Security Level** Lower **Security Level** Append only ...

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Information processing apparatus with a software protecting function

K Kawano, M Taguchi, K Saito - US Patent 5,995,623, 1999 - Google Patents
Page 1. US005995623A United States Patent Kawano et al. [ii] Patent Number:
5,995,623 [45] Date of Patent: Nov. 30, 1999 [54] INFORMATION ...

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Covert channel analysis of the password-capability system

D Mossop, R Pose - Lecture notes in computer science, 2005 - Springer
... operating system with a global **virtual address** space, access ... systems run- ning it
sharing the same **virtual memory**. ... run within the single **security level** of that ...

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Technique for efficiently transferring moderate amounts of data across address space boundary

MA Auslander, DJ Edelson, H Franke, OY Krieger, BS ... - US Patent App. 09/098,061, 1998 - Google Patents
... 1 and 2. Establishment of **virtual memory** regions occurs ... knows exactly where in its
virtual address space the ... If the **security level** of the system requires that ...

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[PDF] •Comparison of Security Patterns

DG Rosado, E Fernández-Medina, M Piattini, C ... - IJCSNS, 2006 - paper.ijcsns.org
... is a variety of structures of **virtual memory** addresses space ... 5. **Virtual Address** Space
Access Control Pattern. ... degree: It indicates the **security level** that the ...

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Enhancing security through hardware-assisted run-time validation of program data properties- •psu.edu [PDF]

D Arora, A Raghunathan, S Ravi, NK Jha - Proceedings of the 3rd IEEE/ACM/IFIP international ..., 2005 - portal.acm.org
... in \$R\$ is the **virtual address** of the ... Regular **virtual memory** protection ensures that
the application is ... write data above (or below) a specified **security level**. ...

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An optimal solution to the secure reader-writer problem

G Benson - 1992 IEEE Computer Society Symposium on Research in Security ..., 1992 - ieeeexplore.ieee.org
... be mapped into clients' **virtual address** spacer. ... curity level range encapsulates the
file's **security level**. ... TMach is implemented on **virtual memory** support- ing ...

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Address Space Layout Permutation: Increasing Resistance to Memory Corruption Attacks- •ncsu.edu [PDF]

CG Bookholt - 2005 - lib.ncsu.edu

... diversity by making the **virtual memory** layout of every process unique and unpredictable. ...
of a process in 32-bit **virtual address** space with the Linux 2.4.31 ...

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OPEN TYPE GENERAL-PURPOSE ATTACK-RESISTANT CPU, AND APPLICATION SYSTEM THEREOF

T Hatakeyama, H Muruyama, K Ushiwaka, T Hasebe, N ... - EP Patent 1,542,112, 2005 - freepatentsonline.com

... If the code accesses the **virtual address** of the NOP ... Note that NOP stored in a **virtual memory** may be ... are implemented with a robust **security level** equivalent to a ...

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[PDF] •The Walnut Kernel a Password-capability Based Operating System

MD Castro - 1996 - castro.aus.net

Page 1. The Walnut Kernel: A Password-Capability Based Operating System Thesis
submitted for examination for the Degree of Doctor of Philosophy, ...

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System and method for using address bits to form an index into secure memory

DR Morais, JA Andrews - US Patent 7,356,668, 2008 - Google Patents

Page 1. US007356668B2 (12) United States Patent Morals et al. (io) Patent

No.: US 7,356,668 B2 (45) Date of Patent: Apr. 8, 2008 ...

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Method and apparatus for secure execution using a secure memory partition

M Mittal - US Patent App. 11/229,669, 2005 - Google Patents

... **virtual address** base register, which species the start of the secure partition in
virtual memory, and a secure partition **virtual address** range register, which ...

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[PDF] •Issues of Operating Systems Security

C Radu, ZR Daniel - ici.ro

... and transferring the copy into their own **virtual memory**. ... a program can appear in
multiple **virtual address** spaces, as ... an object of less or equal **security level**. ...

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MEMORY ACCESS CONTROLLER AND METHOD FOR MEMORY ACCESS CONTROL

S Rueping - US Patent App. 11/625,981, 2007 - Google Patents

... physical address corresponding to the **virtual address** may again ... physical memory to the **virtual memory** in the ... corresponding to a required **security level** of the ...

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MONITOR MODE INTEGRITY VERIFICATION

GR Conti - US Patent App. 11/617,411, 2006 - Google Patents

... 3, in order of ascending **security level**, these four ... ETM bus 405 and compares the **virtual address** with the expected range of **virtual memory** addresses stored ...

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Configuration of clients for multiple computer services

AI Zubev - US Patent App. 11/413,362, 2006 - Google Patents

... herein, a "logical address" or "**virtual address**" is a ... the manner in which **virtual memory** is mapped ... metadata connection having a different **security level** than a ...

[Web Search](#) - [All 2 versions](#)

Comments on the creation of secure operating systems

JC Newell - 7. symposium on operating systems principles, 1979 - osti.gov

... within its own **virtual address** space. ... for a system user of a given **security level** to interfere with ... **Virtual memory** paging mechanisms can also introduce flaws if ...

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A Qualitative Analysis of the Critical's Path of Communication Models for Next Performant ...

OB Fredj, F Evry, E Renault - Advances in Systems, Computing Sciences and Software ..., 2006 - Springer

... a contiguous message in the **virtual address** space is not ... the send operation (**security level**, the reliability ... and J. Sandberg, "**Virtual memory** mapped network ...

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[PDF] •Operating Systems Prof. Ashok K Agrawala

AK Agrawala - Real-Time Systems, 2001 - www-lb.cs.umd.edu

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August 07 1 CMSC412 Set 1 Page 2. Today • Review Syllabus ...

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[PDF] •00 SPECIFICATION OF A 00 TRUSTED COMPUTING BASE (TCB)

GH Nibaldi - dtic.mil

... devices are manipulated through the **virtual memory** mechanism: a ... a device by referencing a **virtual address** that is ... an object unless the **security level** of the ...

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[PDF] •Secure Microkernel Operating Systems Shrink to fit today's verification technology

H Blume - Citeseer

... Consequently the **security level** being implemented is a tradeoff between a number ...
The introduction of **virtual memory** based on hardware memory management units ...

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[Towards a Virtualization-enabled Framework for Information Traceability \(VFIT\)](#)

R Sahita, U Savagaonkar - Springer

... initialization there is a single **virtual memory** mapping of ... a data set must provide the **virtual address** for the ... The **security level** of the label is then used by ...

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[PS] •Mobile Devices In eBusiness

N Opportunities, N Risks - www.spies.in.tum.de

... and hashing to ensure the required **security level**. ... PalmOS does not support **virtual memory** management. ... of processes via isolated **virtual address** spaces is ...

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[Method and apparatus for displaying and managing inherited values](#)

GR Hintermeister, MD Rahn - US Patent App. 10/677,428, 2003 - Google Patents

... 7,2005 Sheet 2 of 12 US 2005/0076305 A1 134, 128 202 204 \ V 7 / \ / / / i 30 **Security level**: T FIG. ... 202 204 1 \ j _ . T] 30 [1 r ' **Security level**: FIG. ...

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[PDF] •A^fvta

CA Frey - 2005 - dspace.mit.edu

... file descriptors, path names, and **virtual memory** operations. ... A process is really the combination of a **virtual address** space, a current register state, possibly ...

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CA Frey - 2005 - pdos.csail.mit.edu

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[Creating secure process objects](#)

DE Havens, AU Kishan, RB Ward - US Patent App. 11/129,872, 2005 - Google Patents

... Specifically, those access rights that enable the caller to inject threads, read/write **virtual memory**, and interrogate or modify state of the threads of the ...

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[Architectural support for run-time validation of program data properties](#)

D Arora, S Ravi, A Raghunathan, NK Jha - IEEE Transactions on Very Large Scale Integration (VLSI) ..., 2007 - ieeexplore.ieee.org

... be to provide a system call of the form , where is the **virtual address** of the ... The

OS can manage SECTAGs along with regular **virtual memory** management operations ...

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MF Kaashoek, CA Frey - 2005 - dspace.mit.edu

... file descriptors, path names, and **virtual memory** operations. ... A process is really the combination of a **virtual address** space, a current register state, possibly ...

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[DYNAMIC SELECTION AND APPLICATION OF MULTIPLE VIRTUALIZATION TECHNIQUES](#)

KM Adams, JW Sheldon, P It - 2008 - freepatentsonline.com

... a virtual machine, though at an unprivileged **security level**. ... In. typical **virtual memory** systems, multiple page table 20 ... the mapping of a **virtual address** to a ...

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[\[PDF\] •FINAL EVALUATION REPORT](#)

WF Incorporated - Citeseer

... 33 4.3 Process **Virtual Memory** Address Space : : : : 34 ...

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[PDF] •Access Control

R NEEDHAM, R MAYBURY - cl.cam.ac.uk

... by a user at a sufficient **security level** during the ... The 80386 had built-in **virtual memory** and large enough ... is based on dividing the **virtual address** space of ...

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Method and system to maintain application data secure and authentication token for use therein

BD Noble, MD Corner - US Patent App. 10/608,459, 2003 - Google Patents

... protect swap space, as described in N. Proves, "Encrypting **Virtual Memory**," PROCEEDINGS OF ... The procedure permits entry past a first **security level** if the key ...

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JD Tygar

BS Yee - cs.berkeley.edu

... protected address spaces, including **virtual address** spaces stored ... stored only in **virtual memory**, maps capabilities ... For even a modest **security level** the size of ...

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Open generic tamper resistant CPU and application system thereof

T Hatakeyama, H Maruyama, K Ushiwaka, T Hasebe, N ... - US Patent App. 10/614,921, 2003 - Google Patents

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JD Tangney - dtic.mil

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M Pistoia, S Chandra, SJ Fink, E Yahav - IBM Systems Journal, 2007 - research.ibm.com

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[System and method for an email firewall and use thereof](#)

W Vasilaky, M Devi - US Patent App. 11/495,476, 2006 - Google Patents

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GO) Pub. NO.: US 2007/0033258 A1 Vasilaky et al. (43) Pub. Date: Feb. ...

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W Shi - 2006 - etd.gatech.edu

... 86 7.1.3 Impact of **Virtual Memory** Translation

91 7.1.4 Effect of Cache

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G Griessbach - os.inf.tu-dresden.de

Page 1. Diploma Thesis USB for DROPS Gerd Grießbach gg5@os.inf.tu-dresden.de Dresden

University of Technology Operating System Group 15th March 2003 Page 2. ...

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M Goktepe, NAVAL POSTGRADUATE SCHOOL MONTEREY CA - 2002 - cisr.nps.navy.mil

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SYSTEM SECURITY ANALYSIS by Meftun Goktepe September 2002 Thesis Advisor: ...

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Tamper resistant software-mass data encoding

HJ Johnson, ST Chow, YX Gu - US Patent 7,350,085, 2008 - Google Patents

... SAMA, IN ACCORDANCE WITH REQUIRED **SECURITY LEVEL** 212 CHOSE ... a data value from a **virtual memory**, then control ... determines a mapping of a **virtual address** onto an ...

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TAMPER RESISTANT SOFTWARE

HJ Johnson, ST Chow, Y GU - EP Patent 1,309,905, 2003 - freepatentsonline.com

... A **virtual address** is an integer value signifying a location within a hardware **virtual memory** array (an HVMA, which is normally just called "**virtual memory**"). ...

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A security architecture for microprocessors- •tu-dortmund.de [PDF]

J Platte - 2008 - eldorado.tu-dortmund.de

... A processor supporting **virtual memory** distinguishes between addressable and physically available ... The **virtual address** space is typically divided in pages with a ...

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[PDF] •Cache-based Vulnerabilities and SPAM analysis

M Neve - Citeseer

... Mitigations are presented in Chapter VI. Several ways are explored and stated depending on the **security level** to reach and on the attacker's capabilities. ...

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Asbestos: Securing Untrusted Software with Interposition

D Mazieres, E Kohler, F Kaashoek, R Morris - 2005 - Storming Media

... Appendix B – Labeling **Virtual Memory** in the Asbestos Operating System11 i

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... has a **security level**. ... For example a General with **security level**: (TOP-SECRET, {NUCLEAR, CRYPTO}) should be able to read a file with level: (SECRET, {NUCLEAR}). ...

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A Singh, N Fliege - 2009 - books.google.com

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S Li - Stony Brook University, 2004 - plus.kaist.ac.kr

... Each fixup block contains the base relative **virtual address** of the page, the number of fixups, and an array of 16 bit fixup entries. ...

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ENSURING A C2 LEVEL OF TRUST AND INTEROPERABILITY IN A NETWORKED WINDOWS NT ENVIRONMENT

JA Lucas, G Lott, CE Irvine, R Buddenberg - cisr.nps.edu

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Page processing circuits, devices, methods and systems for secure demand paging and other operations

EP Patent 1,870,813, 2007 - freepatentsonline.com

... security accelerators depending on the **security level** and/or ... In this way, a Secure **Virtual Memory** (SVM) is ... Secure **Virtual Address** Space 2110 has Code pages I,J ...

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... multi-context monitoring and **virtual memory** introspection, that were not previously ...

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V Skormin, D Summerville - 2006 - Storming Media

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... PC hosts). Computers in the same domain may be PCs, Workstations, or Servers that are all at the same **security level**. The Dragonfly ...

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... then multiplied by **virtual memory** page size (usually 4096). ... space. (Currently on a default Linux system, user space has 3GB of **virtual address** space.) Page 21. ...

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... over time due to improvements in these basic elements (primarily driven by IC technology) and architecture refinements (**virtual memory**, caching, pipelining, etc ...

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